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7. Abstract

This document presents a unified view of the Environmental Restoration Technical Information Generation and Management Process. It provides a description of the processes involved in ER Technical Information Management. The scope of this document is limited to outlining the remediation work, identifying the major classes of documents generated during the process of characterizing the sites, and providing an overview of how data, records and documents are managed to meet CERCLA, RCRA and TPA requirements and milestones.

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ENVIRONMENTAL RESTORATION TECHNICAL INFORMATION GENERATION AND MANAGEMENT PROCESS

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ABBREVIATIONS AND ACRONYMS

ARAR Applicable or Relevant and Appropriate Requirements CA Cost Analysis CERCLA Comprehensive Environmental Response, Compensation, and Liability Act of 1980 CLP Contract Laboratory Program CRP Community Relations Plan Data Management Plan DMP U.S. Department of Energy DOE **EDMC** Environmental Data Management Center EE Engineering Estimate EE&G Environmental Engineering & Geotechnology Environmental Field Services **EFS** Environmental Restoration and Remediation ER FAST Function Analysis System Technique Field File Custodian FFC GG Geosciences Group Hanford Environmental Information System HEIS Hanford Geographical Information System HGIS Health and Safety Plan HSP Interim Measures IM IRA Interim Remedial Actions HASM Hanford Analytical Services Management, WHC Operable Unit 00 Project Management Plan PMP Resource Conservation and Recovery Act of 1976 RCRA RDR Request for Data Review RFI/CMS RCRA Facility Investigation/Corrective Measures Study Record Inventory Disposition Schedule RIDS RI/FS Remedial Investigation/Feasibility Study Record of Decision ROD SAP Sampling and Analysis Plan Tri-Party Agreement (Hanford Federal Facility Agreement and TPA Consent Order)

Westinghouse Hanford Company

Waste Information Database System

WHC WIDS

ENVIRONMENTAL RESTORATION TECHNICAL INFORMATION GENERATION AND MANAGEMENT PROCESS

1.0 Introduction

1.1 Purpose

The purpose of this document is:

 To show the relationships between the remediation activities and the data, records and documents which support meeting the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA), Tri-Party Agreement (TPA) and Resource Conservation and Recovery Act of 1976 (RCRA) requirements; and,

To provide a description of the process of generation and management of the Environmental Restoration (ER) Technical Information.

1.2 Scope

The scope of this document is limited to outlining the remediation work, identifying the major classes of documents generated during the process of characterizing the sites, and providing an overview of how data, records and documents interact to meet CERCLA, RCRA and TPA requirements and milestones.

1.3 References

- Key, KT, 1991, Hanford Environmental Information System (HEIS) Sample/Data Entry Flow Summary, WHC-SD-EN-SD-001, Westinghouse Hanford Company, Richland, WA.
- WHC, 1992, Environmental Investigations and Site Characterization Manual, WHC-CM-7-7. Westinghouse Hanford Company, Richland, WA.

2.0 Description

The description of the "Environmental Restoration Technical Information Generation and Management Process" (henceforth referred to as the Process) consists of the following areas:

 Basis for the Process: This document first presents the "RCRA/CERCLA Site Environmental Restoration and Remediation Work Flow" (henceforth referred to as the Work Flow), providing an

overview of the Environmental Restoration and Remediation project. The Work Flow is an outgrowth of the "Workflow Model for RI/FS and RFI/CMS Activities" which is provided as a guideline of activities for CERCLA Remedial Investigation/Feasibility Study (RI/FS) and RCRA Facility Investigation/Corrective Measures Study (RFI/CMS). Thus, the Process is based on this Work Flow.

- Overview of Functional Requirements: A Functional Diagram, based on the Function Analysis System Technique (FAST) diagram technique, is introduced in this document to provide an overview of the functional requirements of the Process. The FAST diagram was developed by a Value Engineering Team for the Environmental Restoration Information Management System to integrate the flow of data, documents, and records, and to provide a framework to consistently manage these entities. The Functional Diagram will serve as a focal point for interrelating the processes and flows described in this document.
- Documentation Activities during the Process: The "Documentation Activities" during the Process are presented. These required documentation activities are extracted from the Work Flow. Their relationships to the Work Flow and the Functional Diagram is also delineated.
- Description of the Process: Finally, the "Environmental Restoration Technical Information Generation and Management Process" is described. It comprises the "RI/FS (RFI/CMS) Documents Flow", the "Record Flow Process", and the "Environmental Restoration Technical Information Generation and Management Flow". The "RI/FS (RFI/CMS) Documents Flow" and the "Record Flow Process" describe the procedures, from creation to disposition, which a document/record prepared during the Process, must follow. The interrelationships of these procedures through the Functional Diagram are shown. The "Environmental Restoration Technical Information Generation and Management Flow" includes, as its element, the "CERCLA/RCRA HEIS Sample/Data Entry Flow". The correlation of the latter with the Process through the Functional Diagram is also presented.

These areas are explored in more detail as follows:

2.1 RCRA/CERCLA Site Environmental Restoration and Remediation Work Flow

The overall Work Flow is shown in Figure 1 and consists of Operable Unit Designation, Characterization and Remedial Action Selection, Expedited Response Action, the Remedial Action Design, Remedial Action Implementation, RCRA Site Closure terminating in a Remediated Site. Each of these major categories are supported by additional activities as identified in Appendix 1.

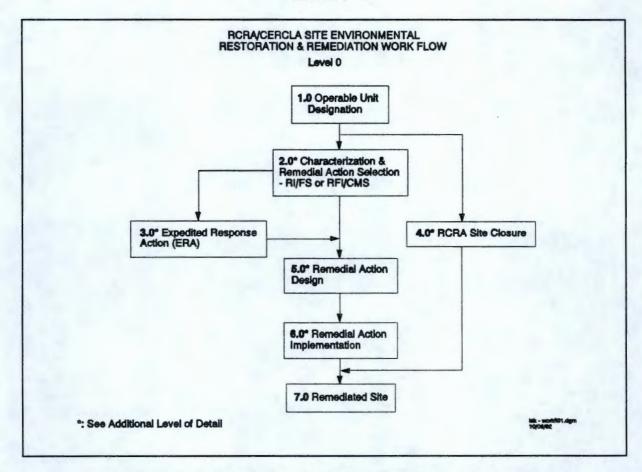


Figure 1, Overall Restoration and Remediation Work Flow

By law and agreement, the work being performed must meet CERCLA, RCRA and TPA requirements. This requires that records must be maintained of all essential activities such that the Record of Decision (ROD) can be defended in court, if necessary, and all subsequent actions related to the decision can be measured through documented evidence as having been carried out per the decision (cf. section 2.3 Work Flow Documentation Activities). In addition, monitoring of the remediated site must be continued for 30 years after agreement has been reached that the ROD has been properly executed and that the actions taken protect the public.

2.2 Functional Diagram, ER Technical Information Generation and Management

Figure 2 shows the Functional Diagram for the Process. A full page representation of the diagram can be found on page App. 2 - 3. It is used to integrate the flow of data, documents, and records, and to provide a framework to consistently manage these entities. The diagram uses a value-engineering technique in which each function appears exactly once and is specified simply,

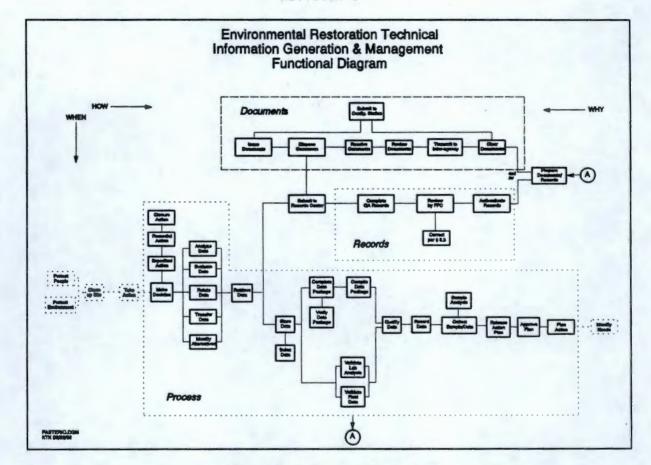


Figure 2, Functional Diagram
ER Technical Information Generation & Management

in terms of a verb and an object. The diagrams may be read in various directions to answer How, When, and Why functions are performed. When the diagram is read from right to left, the question of Why functions are performed is answered. Alternately, when read from left to right, How is answered. Boxes stacked vertically identify functions performed When the function in the left-right sequence is performed.

The current functional requirements for the Process consist of the following areas:

- Document (Control)
- Records (Management)
- Process (Using or Creating Data)

As indicated, documents and/or records will be generated at various stages of the Process (cf. section 2.3 Work Flow Documentation Activities). The outputs of these documents/records at each of these stages are collective-

ly represented by the sign post A in the Functional Diagram. These outputs will, in turn, serve as inputs, A, to the Document and/or Records blocks for further processing requirements.

2.3 Work Flow Documentation Activities

Posts A1, A2, & A3: As indicated on the Functional Diagram, Page App. 2 - 3.

Туре	Post	Activities	Work Flow Section #	
Scoping	A1	Activity Work Plan Health & Safety Environmental Documents & Permits	2.1.2 2.1.3	
000,111.0	A3	1. Scoping Study Results	2.1.6	
	A1	1. RI/FS, RFI/CMS: Work Plans 2. Obtain Safety & Environmental Documentation/Permits 3. Project Level Field Sampling Plan (Phase I) 4. Remediation Plan (Remedial Action Design)	2.2 2.3.1,5.3 2.3.2 5.2	
Remedial Action	A2	1. RI/RFI Phase I Report (Characterization) 2. FS/CMS Phases I & II Report (Alternatives) 3. Develop Test Plan (Treatability) 4. Secure Permits & Safety Documentation 5. RI/RFI Phase II Report (Treatability) 6. FS/CMS Phase III (Alternatives)	2.3.5 2.4.8 2.5.2 2.5.3 2.5.5 2.6.5	
	A3	Risk Assessment Record of Decision or RCRA Permit Modification Document Process Report Results	2.3.4 5.4 6.4 6.5	
	A1	IRA/IM Project Plan Safety & Environmental Permits & Documents	3.6 3.7	
Expedited Action	A2	1. IRA/IM Proposal (EE & CA)	3.9	
AST TON	A3	Final Report Record of Decision or RCRA Permit Modification	3.14 5.4	
Closure	A1	Work Plan for New Data (if needed) Management Action Plan Remedial Activity Plan (Facility Design or Removal)	4.2 4.7 4.10.1	
	A2	1. Closure or Post Closure Plans	4.8	

Table 1, Work Flow Documentation Activities

The Documentation Activities during the execution of the Process are shown in Table 1. This table contains the types of reports (extracted from the Work Flow) required at each stage of the Process. It correlates the Documentation Activities with the types of Remedial/Restoration Action, and with the section numbers of the Work Flow. It also correlates with the functional requirements by sign posts, A#, as shown in the Functional Diagram in Appendix 2.

2.4 ER Technical Information Generation and Management Process

The processes involved in Environmental Restoration Technical Information Generation and Management, as shown Appendix 3, include the "RI/FS (RFI/CMS) Documents Flow", the "Record Flow Process", and the "Environmental Restoration Technical Information Generation and Management Flow". These processes are shown in Appendices 3b, 3c and 3d. The interrelationship of these processes is shown in the Functional Diagram in Appendix 3a, via sign posts A#, B#, C#. The general documentation requirements in these activities are as described in Table 1. These processes are described in further detail as follows:

2.4.1 RI/FS (RFI/CMS) Documents Flow

The RI/FS (RFI/CMS) Documents Flow describes the life cycle of RI/FS (RFI/CMS) documents from their creation to their issuance. The flow diagram shown in Appendix 3b is adapted from that of the document "Environmental Investigations and Site Characterization Manual, RI/FS (RFI/CMS) Document Review and Control" (EII 1.9, Rev 1, WHC-CM-7-7), with equivalent functions grouped together for better representation. Each grouped function block is related to the Functional Diagram by sign posts A#, as shown in Appendices 3a and 3b.

2.4.2 Record Flow Process

Similarly, the Record Flow Process describes the life cycle of records from their generation to their disposition. The flow diagram shown in Appendix 3c is adapted from that of the document "Environmental Investigations and Site Characterization Manual" (EII 1.6, Rev 3, WHC-CM-7-7), with equivalent functions grouped together for better representation. Each grouped function block is related to the Functional Diagram by sign posts B#, as shown in Appendices 3a and 3c.

2.4.3 ER Technical Information Generation and Management Flow

Appendix 3d presents the flow of the activities involved in Environmental Restoration Technical Information Generation and Management. These activities are grouped in functional blocks and are related to the Functional Diagram by sign posts C#, as shown in Appendices 3a and 3d. These activities are described in further detail as follows:

2.4.3.1 Environmental Data Management

The Environmental Data Management organization has the oversight responsibilities for the life cycle of Environmental Restoration Technical Information Generation and Management. Aspects of these responsibilities include

defining the requirements for the reports to be generated and overseeing the life cycle of the documents from their origination to their disposition to the designated depositories.

2.4.3.2 Review Background

For a particular RI/FS or RFI/CMS project, the technical lead provides the background information to assess the availability of the data and the data to gather. This is accomplished by a review of existing information in Waste Isolation Database System (WIDS) and other known related reference sources.

2.4.3.3 RI/FS or RFI/CMS Scoping Studies

Before the preparation of the RI/FS or RFI/CMS plans, scoping studies will be conducted to determine whether an Expedited Response Action is required for a particular operable unit. The scoping studies also determine whether the available data are sufficient for generating the RI/FS or RFI/CMS work plans. The documents generated, together with the related Work Flow Diagram section numbers are as shown in Table 1, Type Scoping.

As the scoping studies are completed, the RI/FS or RFI/CMS plans are generated under the direction of the Technical Coordinator for the Operable Unit. All documents generated are routed to the pertinent Record Center.

2.4.3.4 Documents

The RI/FS or RFI/CMS Plan is finalized with the conclusion of the scoping studies and includes Data Management Plans, Work Plans, Sample/Analysis Plans, Site Characterization Plans, and other plans. The documents generated are routed to the pertinent Record Center.

2.4.3.5 HGIS Data

Hanford geographical data can be taken at a point (eg. field samples) or digitized from a photograph. The required data must conform to the structure of Hanford Geographical Information System (HGIS) databases and the HGIS standards as defined in the HGIS Technical Manual (in development). These data will be used for the generation of maps or derived map products, to perform analyses, and to supply data to other reports or users.

2.4.3.6 HEIS Data

Certain Hanford Environmental Information System (HEIS) data will result from the preparation and the implementation of the RI/FS or RFI/CMS data

management plans. The required data, either existing or generated by the implementation of the plans, must conform to the Subject Areas of the HEIS, before being input into the HEIS database. These data will be used for the generation of data reports, and input to various analysis models (groundwater, risk assessment, etc.) or to supply data to other reports.

2.4.3.7 Other Data

The preparation and implementation of the RI/FS plans could also generate or identify data other than those of HGIS or HEIS. These data may be contained in records, such as log books, custody sheets, etc. The contents of these records may reside on some databases. The data reports of the Other Data are routed to the pertinent Record Center.

2.4.3.8 Plan Implementation

The implementation of the RI/FS or RFI/CMS plans initiates three categories of actions or combination of these actions: Expedited Response Action, Remedial Action and Closure Action. These actions all generate documents to be managed. The documents generated are forwarded to the pertinent Record Center for processing.

Expedited Response Action:

This action is detailed in section 3.0 of the Work Flow. The documents generated in this action are as shown in Table 1, Type Expedited Action.

Remedial Action:

This action is detailed in sections 2.0, 5.0, 6.0 and 7.0 of the Work Flow. It is to be noted that, during the course of the Remedial Action, Expedited Response Actions might be taken. In such instances, the documentation requirements of the Expedited Response Action will take precedence. The Remedial Action generates documents on such topics as Characterization, Design, Record of Decision, and Records (such as Log books, Custody sheets, others). The characterization activities will generate HEIS data as well as Other data. The HEIS data (cf. section 2.4.3.6) include data from the investigations of air, biota, groundwater, soil gas, etc. For more detailed description of HEIS sample/data flows, consult "CERCLA/RCRA HEIS Sample/Data Entry Flow (WHC-SD-EN-SD-001)." A copy of the HEIS sample/data flow chart and its relationship to the Functional Diagram are attached for reference (cf. Appendix 4, section 3.7). The Other data (cf. section 2.4.3.7) include data from risk assessments (exposure, toxicity, modeling, HGIS studies etc), and from other non-HEIS, non-HGIS Records. The Other data may reside as a record and/or on a database, or in a computer file. The

documents generated in this action are as shown in Table 1, Type Remedial Action.

Closure Action:

This action is detailed in section 4.0 of the Work Flow. Site closure generates documents to be forwarded to Record Center. The documents generated in this action are as shown in Table 1, Type Closure.

2.4.3.9 Record Center

Record Centers for processing technical information documenting remediation activities include the Environmental Data Management Center (EDMC) and other record centers maintained for the Environmental Restoration Engineering (ERE) and the Environmental Field Services (EFS) organizations.

The pertinent Record Center receives documents and/or records generated at various stages of the Process, including documents classified as Administrative Record (AR) documents and/or quality assurance (QA) records. The Environmental Data Management organization will be informed of the technical information generated and/or processed through routine performance reports. Functions performed at the Record Centers, under established WHC procedures, include, but are not limited to, the following:

- Configuration management/engineering release for environmental engineering documents
- QA record processing
- Compilation and maintenance of the AR files and management of the public information repositories
- Managing one-of-a-kind geotechnical samples and associated documentation
- Dispositioning completed documents/records to the pertinent IRM records holding area

3.0 Appendices

Appendices 1 and 2, taken together, discern the relationships between the remediation activities and the data, records and documents which support meeting the CERCLA, TPA and RCRA requirements.

- Appendix 1, RCRA/CERCLA Site Environmental Restoration and Remediation Work Flow
- Appendix 2, Work Flow Documentation Activities and the related Functional Diagram

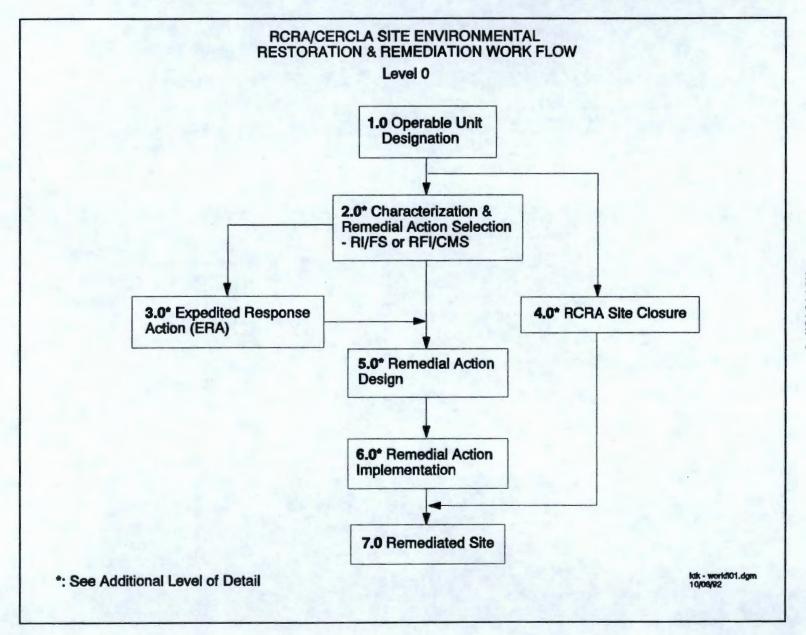
Appendices 3a - 3d, as a group, provide a description of the process of generation and management of the Environmental Restoration (ER) Technical Information.

- 3. Appendix 3a, Functional Diagram, the interrelationship of the ER Technical Information Generation and Management processes
- 4. Appendix 3b, RI/FS (RFI/CMS) Documents Flow
- 5. Appendix 3c, Record Flow Process
- 6. Appendix 3d, Environmental Restoration Technical Information Generation and Management Flow

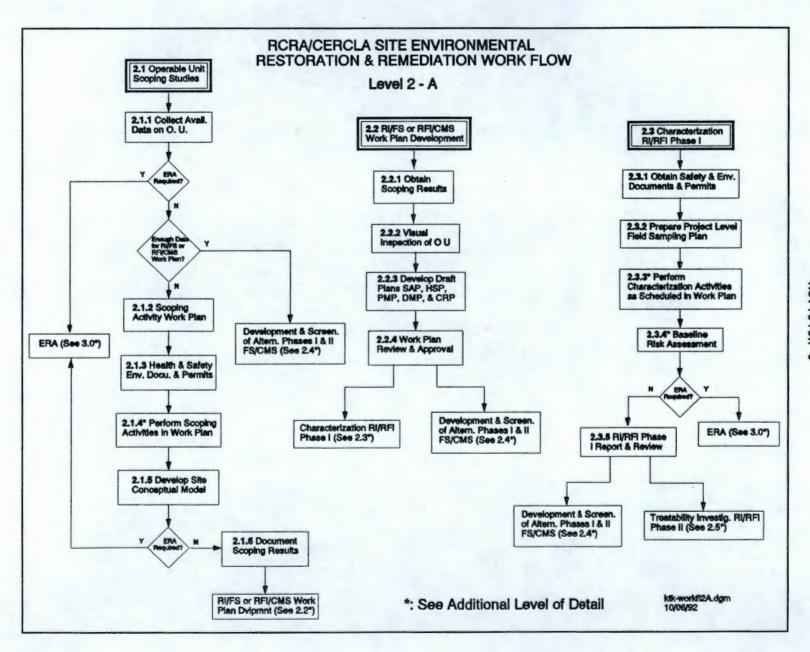
Appendix 4 provides an expanded view of the box, the CERCLA/RCRA HEIS Sample/Data Entry Flow, in the Environmental Restoration Technical Information Generation and Management Flow, Appendix 3d.

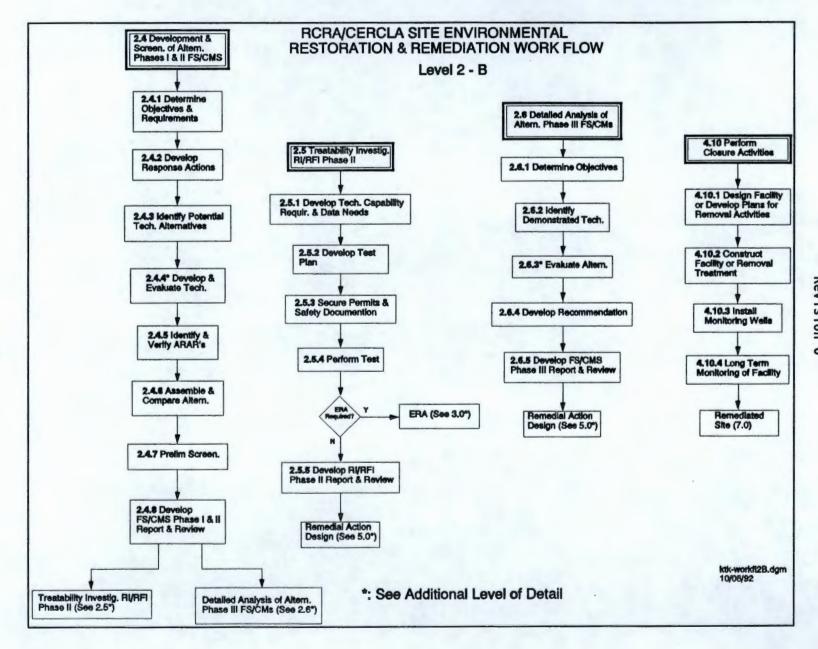
7. Appendix 4, CERCLA/RCRA HEIS Sample/Data Entry Flow and the related Functional Diagram

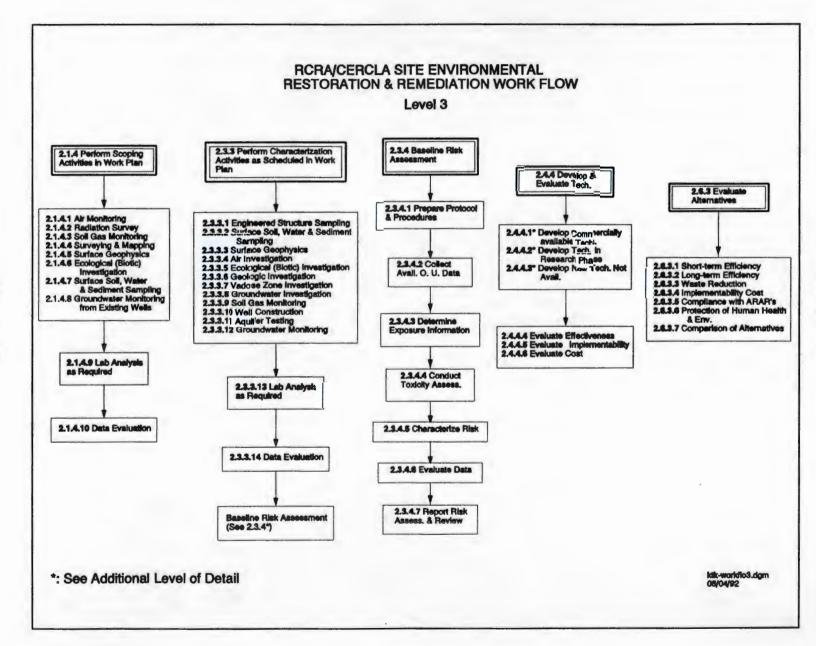
3.1 Appendix 1, RCRA/CERCLA Site Environmental Restoration and Remediation Work Flow

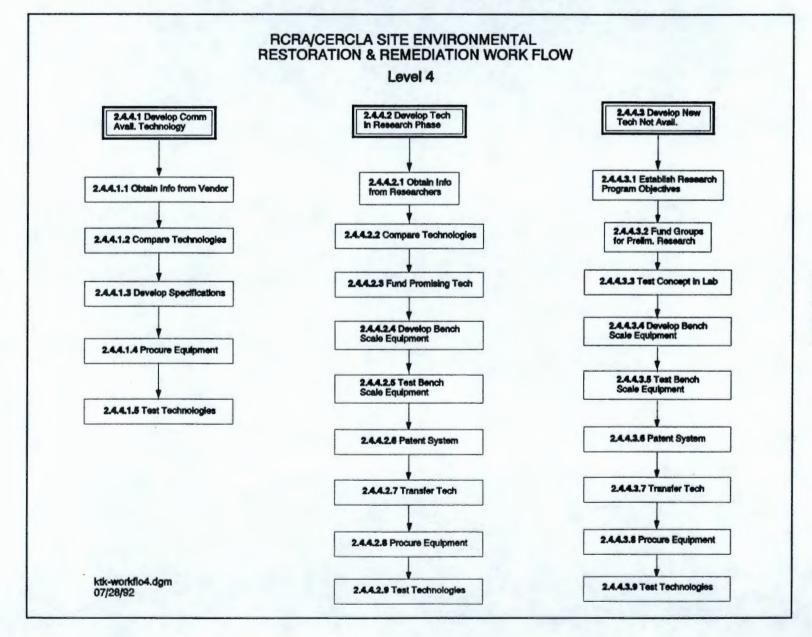


App. 1 - 3









3.2 Appendix 2, Work Flow Documentation Activities and the related Functional Diagram

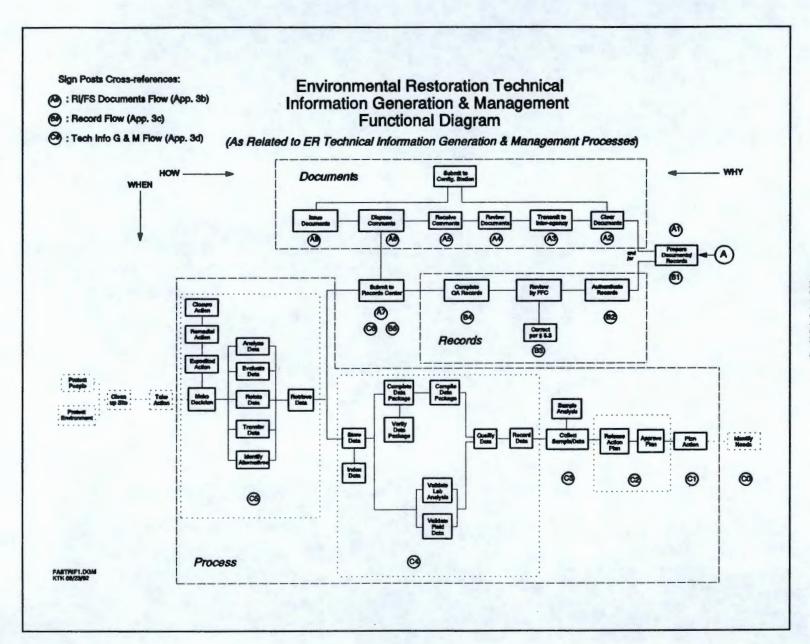
Work Flow Documentation Activities and their Relationships to Environmental Restoration Information Generation and Management Process Functional Diagram

Posts A1, A2, & A3: As indicated on the Functional Diagram, Page App. 2 - 3.

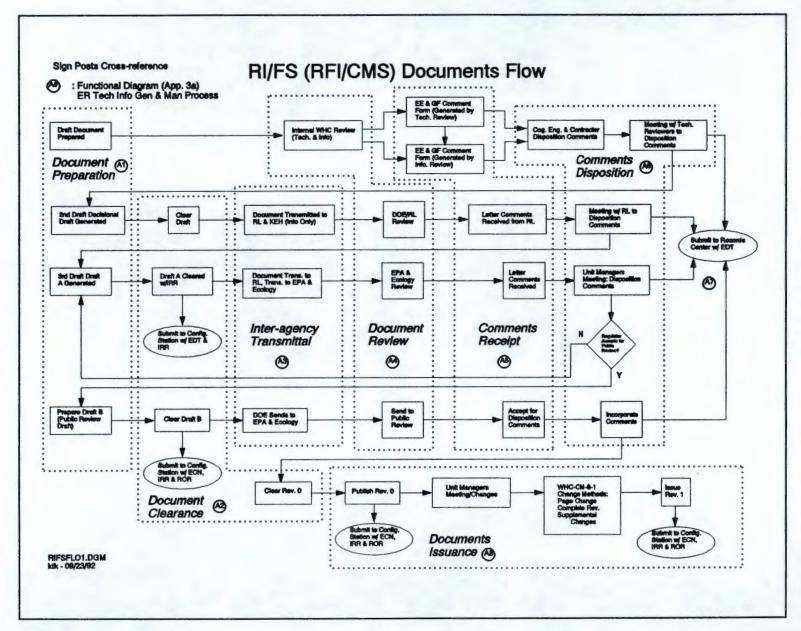
Туре	Post	Activities	Work Flow Section #			
Scoping	A1	Activity Work Plan Bafety Environmental Documents & Permits	2.1.2 2.1.3			
	A3	1. Scoping Study Results	2.1.6			
	A1	1. RI/FS, RFI/CMS: Work Plans 2. Obtain Safety & Environmental Documentation/Permits 3. Project Level Field Sampling Plan (Phase I) 4. Remediation Plan (Remedial Action Design)	2.2 2.3.1,5.3 2.3.2 5.2			
Remedial Action	A2	1. RI/RFI Phase I Report (Characterization) 2. FS/CMS Phases I & II Report (Alternatives) 3. Develop Test Plan (Treatability) 4. Secure Permits & Safety Documentation 5. RI/RFI Phase II Report (Treatability) 6. FS/CMS Phase III (Alternatives)				
	A3	Risk Assessment Record of Decision or RCRA Permit Modification Document Process Report Results	2.3.4 5.4 6.4 6.5			
	A1	IRA/IM Project Plan Safety & Environmental Permits & Documents	3.6 3.7			
Expedited	A2	1. IRA/IM Proposal (EE & CA)	3.9			
	1. Final Report 2. Record of Decision or RCRA Permit Modification		3.14 5.4			
Closure	A1	 Work Plan for New Data (if needed) Management Action Plan Remedial Activity Plan (Facility Design or Removal) 	4.2 4.7 4.10.1			
	A2	1. Closure or Post Closure Plans	4.8			

App. 2 - 3

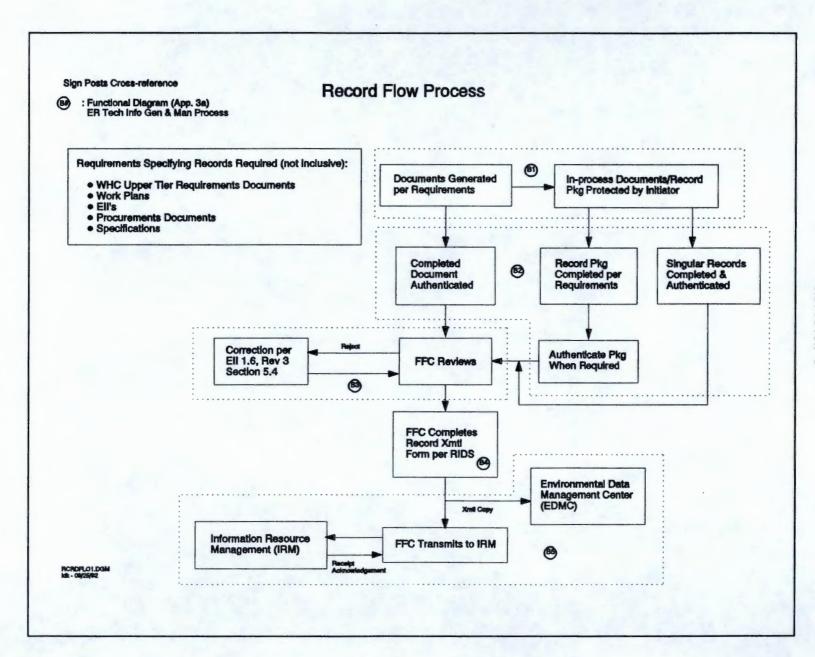
3.3 Appendix 3a, Functional Diagram, the interrelationship of the ER Technical Information Generation and Management processes



3.4 Appendix 3b, RI/FS (RFI/CMS) Documents Flow



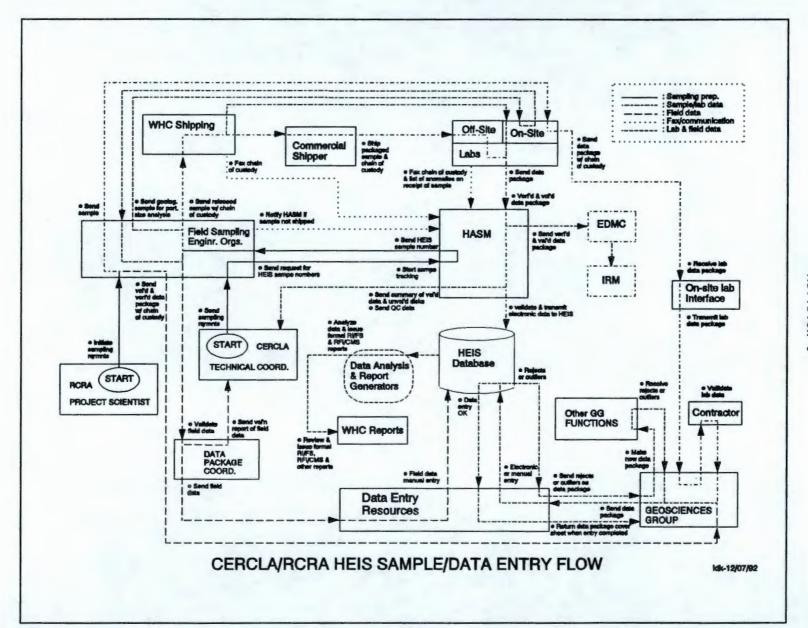
3.5 Appendix 3c, Record Flow Process



3.6 Appendix 3d, ER Technical Information Generation and Management Flow

App. 3d - 2

3.7 Appendix 4, CERCLA/RCRA HEIS Sample/Data Entry Flow and the related Functional Diagram



App. 4 - 3

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